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# Salt Analysis Chart With Equations

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## **Salt Analysis Chart With Equations**

Salt analysis (also known as systematic qualitative analysis or qualitative inorganic analysis) involves the identification of the cation and anion of an inorganic salt. This is done by conducting a series of tests in a

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systematic manner and using the observations to confirm the absence or presence of specific cations and anions.

## **Salt Analysis: Step-by-Step Guide with Tricks & Shortcuts**

-(nitrite): Salt + dil H<sub>2</sub>SO<sub>4</sub> 1. No reaction: Group I anion not present. Continue to group II. 2. Carbonate: Colourless and odourless gas (CO<sub>2</sub>) 1.

WE 1 + MgSO<sub>4</sub> =

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## PDF Salt Analysis

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white ppt 3. Sulphite:  
Colourless gas with  
pungent smell 1. WE +  
BaCl<sub>2</sub> (aq) = white ppt  
soluble in dil HCl 1  
Water extract: Pinch of  
salt + water 2. WE +  
acidified K<sub>2</sub>Cr<sub>2</sub>O<sub>7</sub> 2 =  
sol 3 ...

## **Chemistry Salt Analysis Cheatsheet 2 4 5**

salt analysis s.no.  
experiment  
observation inference  
test for anions:- 1 salt

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+ dil.  $\text{H}_2\text{SO}_4$  2-brisk effervescence with evolution of  $\text{CO}_2$  gas  
dil.  $\text{H}_2\text{SO}_4$  acidic radical  $\text{CO}_3$  may be present  
confirmatory tests- a passed the above  
liberated gas through lime water lime water turns milky  $\text{CO}_3^{2-}$  is confirmed b aq. solution of salt+  $\text{MgSO}_4(\text{aq.})$

## **SALT ANALYSIS**

(Study Material) Salt Analysis of Cations and

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Anions (Chemistry)

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ANALYSIS OF SIMPLE  
SALT-ANIONS

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EXPERIMENT

OBSERVATION

INFERENCE Test for carbonate A little of salt solution is treated with dil.Hcl

Conformatory test for carbonate 1) The above gas is passed through 1 ml of lime water taken in a test tube and shaken well 2) A little of the salt solution is treated with Bacl<sub>2</sub> solution Test for Accetate(CH<sub>3</sub>COO-

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**ANALYSIS OF  
SIMPLE SALT-  
ANIONS  
EXPERIMENT  
OBSERVATION ...**

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experiments Titration  
(Mohr's Salt) -  
Discusses preparation  
of 250ml of M/20  
solution of Mohr's salt  
and using that to  
calculate the molarity  
and strength of the

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given  $\text{KMnO}_4$  solution.  
Titration – Oxalic Acid –  
Discusses preparation  
of 100ml of M/40  
solution ...

**Chemistry XII**  
**Practical - Salt**  
**Analysis and Other**  
**Experiments**

taken for high salt  
content samples.)  
Repeat any analysis if  
 $\text{KSCN}$  titration is less  
than 2 mL. d. Addition  
of silver nitrate and  
nitric acid Silver nitrate

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must be added first. 3.  
Readiness To Perform  
a. Familiarization i.  
Phase I: Standards-Not  
applicable unless  
performing reagent

## **Determination of Salt**

CHEMISTRY Salt  
analysis class 12 1.  
SALT ANALYSIS  
SCHEME OF ANALYSIS  
EXPERIMENT  
OBSERVATION  
INFERENCE  
PRELIMINARY

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EXAMINATIONS : 1)

Noted the colour

Colourless Absence of

$\text{Cu}^{2+}$  ,  $\text{Fe}^{2+}$  ,  $\text{Fe}^{3+}$

,  $\text{Mn}^{2+}$  ,  $\text{Co}^{2+}$  ,  $\text{Ni}^{2+}$

Blue Pre. of  $\text{Cu}^{2+}$

Brown Pre. of  $\text{Fe}^{3+}$

Green Pre. of  $\text{Ni}^{2+}$  Pale

pink Pre. of  $\text{Mn}^{2+}$  Pink

Pre. of  $\text{Co}^{2+}$  2) Noted

the solubility a) In

water b) In dil.HCl a)

Soluble and no ppt with

$\text{Na}_2\text{CO}_3$  b ...

**CHEMISTRY Salt  
analysis class 12 -**

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The flame test is used to visually determine the identity of an unknown metal or metalloid ion based on the characteristic color the salt turns the flame of a Bunsen burner. The heat of the flame excites the electrons of the metals ions, causing them to emit visible light. Every element has a signature emission spectrum that can be

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used to differentiate between one element and another.

### **How to Do a Flame Test for Qualitative Analysis**

Qualitative analysis is used to identify and separate cations and anions in a sample substance. Unlike quantitative analysis, which seeks to determine the quantity or amount of sample, qualitative analysis is a



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descriptive form of analysis. In an educational setting, the concentrations of the ions to be identified are approximately 0.01 M in an aqueous solution.

## **Qualitative Analysis: Identifying Anions and Cations**

Types of Salt. 1. Acidic salt - The salt formed by partial neutralization of a diprotic or a polyprotic

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acid is known as an acidic salt. These salts have ionizable  $H^+$  ion along with another cation. Mostly the ionizable  $H^+$  is a part of the anion. Some acid salts are used in baking. For eg:-  $NaHSO_4$ ,  $KH_2PO_4$  etc..

$$H_2SO_4 + NaOH \rightarrow NaHSO_4 + H_2O$$

**Salt Chemistry -  
Definition, Formula,  
Properties & Types**

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chemistry deals with  
qualitative and

quantitative analysis of  
the substances. In

qualitative analysis,

the given compound is  
analyzed for the

radicals, i.e., cation

and the anion, that it

contains. Physical

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procedures like noting the colour, smell or taste of the substance have [...]

## **Chemistry Qualitative Analysis - Chemistry Practical Class ...**

Let's discuss the Qualitative Analysis of Anions. Qualitative Analysis of Anions Preliminary Tests. Some preliminary tests are done before going to the anion analysis.

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(A) Physical

**Examination:** Colour and Smell. The physical examination of the unknown salt involves the study of colour, smell and density.

### **Qualitative Analysis of Anions (Theory) : Class 11 ...**

This site is dedicated to C.B.S.E syllabus. It includes NCERT solutions, C.B.S.E. class XII (12) chemistry and computers project, It

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also have all the practical observations for class XI and class XII.

## **SALT ANALYSIS - cbse**

Water analysis report from a drill stem test recovery, showing chemical analysis, calculated and measured water resistivity, and Stiff diagram of chemical analysis. This is a fairly salty formation water

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with salinity of 146,000 parts per million (ppm) and a resistivity of 0.066 @ 25C.

**Crain's Petrophysical Handbook | Laboratory Water Analysis ...**

The composition of relatively complex mixtures of metal ions can be determined using qualitative analysis, a procedure for discovering the identity of metal ions

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present in the mixture (rather than quantitative information about their amounts). The procedure used to separate and identify more than 20 common metal cations from a single solution consists of selectively precipitating only a few ...

## **18.9: Qualitative Cation Analysis - Chemistry**



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Classical qualitative inorganic analysis is a method of analytical chemistry which seeks to find the elemental composition of inorganic compounds. It is mainly focused on detecting ions in an aqueous solution, therefore materials in other forms may need to be brought to this state before using standard methods. The solution is then treated

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with various reagents  
to test for reactions ...

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